

Title of module	responsible	SWS	type of course	Title of lectures (teacher)	Examination	ECTS
1st year KU Leuven						
for a description of the courses at KU Leuven please see http://www.emm-nano.org						
3rd semester TU Dresden						
Core/Compulsory modules						
Lab Rotation Biophysics	Guck	6	lab course	Lab Rotation Biophysics (all teachers)	lab protocol	6
Molecular Biophysics	Guck	2	lecture	Cellular Machines: Fundamentals and	written exam (90 min)	9
		2	exercise	Applications of Biomolecular Mechanosystems		
		1	lab course	(Diez)		
		2	lecture	Biophysical Methods (Guck)		
		2	seminar			
		1	lab course			
Broadening modules						
Biological oriented module (6 ECTS, choose 2 courses)						6
Developmental Biology	Brand	2	lecture	offered in summer term!	2 oral exam (20 min each), 50% each	
Elements of/Introduction to Nanobiotechnology	Cuniberti	2	lecture			
Genomes and Evolution	Stewart	2	lecture			
Introduction to Proteomics	Hoflack	2	lecture			
Protein Engineering	Hoflack	2	lecture			
Surface Chemistry	Werner	2	lecture			
Electives - 9 ECTS to be completed:						9
Biofunctionalised Surfaces	Scharnweber	2	lecture		oral exam	3
Biomedical Tissue Engineering	Corbeil	2	lecture		oral exam	3
Current topics in Materials Science	Cuniberti	2	seminar		oral exam	3
Developmental Biology	Brand	2	lecture	offered in summer term!	oral exam	3
Diffraction Methods	HG Braun	2	lecture		oral exam	3
Elements of/introduction to Nanobiotechnology	Cuniberti	2	lecture		oral exam	3
Environmental Nanotechnology	Cuniberti	2	lecture		oral exam	3
Genomes and Evolution	Stewart	2	lecture		oral exam	3
Introduction to Proteomics	Hoflack	2	lecture		oral exam	3
Magnetism on the Nanoscale	Büchner	2	lecture		oral exam	3

Mathematical Biology	Deutsch	2	lecture	not offered in winter term 2014/15	oral exam	3
Molecular electronics	Cuniberti	2	lecture		oral exam	3
Nanooptics	Eng	2	lecture		oral exam	3
Protein Engineering	Hoflack	2	lecture		oral exam	3
Stem Cell Engineering	Stewart	2	lecture		oral exam	3
Surface Chemistry	Werner	2	lecture		oral exam	3
Concepts of Molecular Modelling	Cuniberti	2	lecture		oral exam	5
		2	exercise		project	
Biological Hydrodynamics	Grill	2	lecture		presentation	5
		2	exercise			
Materials for Nanoelectronics and Printing Technology	Richter	4	lecture		2 written exams	6
Physical Characterization of Organic and Organic-Inorganic Thin Films	Zschech	2	lecture		written exam	3
Electromechanical Networks	Fischer	2	lecture		written exam	4
		1	exercise			
Integrated Circuits of Broadband Optical Communications	Ellinger	3	lecture		written exam	6
		1	exercise			
4th semester TU Dresden						
Master's Thesis						30